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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,843	07/18/2003	Harold Wiesmann	BSA 03-01	4758
26302	7590 11/06/2006		EXAMINER	
BROOKHAVEN SCIENCE ASSOCIATES/ BROOKHAVEN NATIONAL LABORATORY			TALBOT, BRIAN K	
) - P.O. BOX 5000	TORT	ART UNIT	PAPER NUMBER
UPTON, NY	7 11973		1762	
			DATE MAILED: 11/06/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Annlinent(a)	
	Application No.	Applicant(s)	
Office Action Summary	10/622,843	WIESMANN ET AL.	
Office Action Summary	Examiner	Art Unit	
The MAII INC DATE of this communication	Brian K. Talbot	1762	
The MAILING DATE of this communication a Period for Reply	appears on the cover sneet w	nn the correspondence addres	55
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.1.136(a). In no event, however, may a iod will apply and will expire SIX (6) MOR atute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this commu BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 31	1 August 2006.		
2a) ☐ This action is FINAL . 2b) ☑ T	his action is non-final.		
3) Since this application is in condition for allow	•	• •	erits is
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.E). 11, 453 O.G. 213.	
Disposition of Claims			
4) ⊠ Claim(s) 1-26,57 and 58 is/are pending in the 4a) Of the above claim(s) is/are without 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-26,57 and 58 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	drawn from consideration.		·
Application Papers			
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to t Replacement drawing sheet(s) including the cord 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeya rection is required if the drawing	nce. See 37 CFR 1.85(a). i(s) is objected to. See 37 CFR 1	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Burn * See the attached detailed Office action for a least open company.	ents have been received. ents have been received in A priority documents have been eau (PCT Rule 17.2(a)).	Application No received in this National Sta	ge
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(Summary (PTO-413) s)/Mail Date Informal Patent Application 	

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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this

application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action

has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/31/06

has been entered.

- 2. Claims 1-26 and 57-58 remain in the application.
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. In light of the amendment filed 8/31/06, the 35 USC 103 rejections have been withdrawn.

Claim Rejections - 35 USC § 103

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under

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37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1-22,24,26,57 and 58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ovshinsky et al. (5,520,953) or deBarbadillo, II et al. (4,962,085) in combination with EP-286,135.

Ovshinsky et al. (5,520,953) teaches a method of aligning the discrete brains of a multi-grained superconducting material. Ovshinsky et al. (5,520,953) teaches a superconducting precursor containing a parametric modifier, fluorine, the precursor compound being capable of providing fluorine for incorporation into the perovskite ceramic based defect oxide material without effecting formation of the superconducting material. The fluorine modifier is added to the precursor mixture by a solid source or by gaseous treatment. The superconducting precursor is then heated in an oxidizing atmosphere to produce the superconducting film (col. 11, line 25 – col. 12, line 50).

deBarbadillo, II et al. (4,962,085) teaches a production of oxidic superconductors by zone oxidation of a precursor alloy. deBarbadillo, II et al. (4,962,085) teaches forming flouridized oxidic superconductors by inclusion of fluorine in the atmosphere surrounding the oxidizing zone (col. 3, lines 20-25).

Ovshinsky et al. (5,520,953) or deBarbadillo, II et al. (4,962,085) fails to teach spraying the superconductive precursor on a substrate to form a precursor film prior to adding the fluorine component.

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EP-286,135 teaches flame spraying ceramic oxide superconductors. A superconductor of the formula M¹M²M³ is formed by flame spraying all the components or by flame spraying M¹ and M² and heat treating in an atmosphere of M³. M¹M² comprise oxides, carbonated and fluorides of Cu, Y, Ba, Eu, Gd, etc. while M³ comprises oxygen, fluorine, combination thereof, etc. The substrates include, aluminum oxide, silicon nitride, glass, metals, ceramics and polymers. The substrate can be preheated prior to flame spraying to obtain improved properties. (pg. 2, line 30 – pg. 6, line 20)

Therefore it would have been obvious for one skilled in the art at the time the invention was made to have modified Ovshinsky et al. (5,520,953) or deBarbadillo, II et al. (4,962,085) process by spraying the superconductive materials on the substrate with the expectation of achieving similar success.

With respect to the claims reciting carrier gases, specific precursors, etc, it is the Examiner's position that these variables are conventional and are a matter of design choice of one practicing in the art. One skilled in the art at the time the invention was made would have had a reasonable expectation of achieving similar results with any of the know carrier gases and precursors claimed.

Claims 23 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ovshinsky et al. (5,520,953) or deBarbadillo, II et al. (4,962,085) further in combination with EP 286,135 still further in combination with JP 01-83651 or Ovshinsky et al. (5,102,860).

Ovshinsky et al. (5,520,953) or deBarbadillo, II et al. (4,962,085) further in combination with EP 286,135 fail to teach a plasma discharge for forming the superconducting material.

JP 01-83651 teaches a plasma discharge treatment of a superconducting film with a fluorine compound (abstract).

Ovshinsky et al. (5,102,860) teaches fluorinating a ceramic oxide including a superconducting ceramic oxide. The fluorination process is performed in a fluorine atmosphere by glow discharge plasma (col. 7, lines 40-50).

Therefore it would have been obvious for one skilled in the art at the time the invention was made to have modified Ovshinsky et al. (5,520,953) or deBarbadillo, II et al. (4,962,085) further in combination with EP 286,135 process by utilizing a plasma discharge as evidenced by JP 01-83651 or Ovshinsky et al. (5,102,860) with the expectation of achieving similar results.

Response to Amendment

7. Applicant's arguments filed 8/31/06 have been fully considered but they are not persuasive.

Applicant argued that the prior art taught fluorinating a superconducting material and not a precursor.

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Ovshinsky et al. (5,520,953) or deBarbadillo, II et al. (4,962,085) both teach fluorinating superconducting precursor materials prior to oxidation to form the final superconducting material.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian K. Talbot whose telephone number is (571) 272-1428. The examiner can normally be reached on Monday-Friday 6AM-3PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy H. Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian K Talbot
Primary Examiner
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